



12/29/03

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| TRANSMITTAL FORM <small>(to be used for all correspondence after initial filing)</small> | Application Number | 09/331,008 | |
| | Filing Date | 07/08, 1999 | |
| | First Named Inventor | Eriko Shimizu | |
| | Art Unit | 2615 | |
| | Examiner Name | Tia M Harris | |
| Total Number of Pages In This Submission | 9 | Attorney Docket Number | |

| ENCLOSURES (Check all that apply) | | |
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| <input type="checkbox"/> Fee Transmittal Form | <input type="checkbox"/> Drawing(s) | <input type="checkbox"/> After Allowance communication to Group |
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| <input type="checkbox"/> Response to Missing Parts/Incomplete Application | Remarks This is the transmission of corrected amendment document to the "Notice of Non-Compliant Amendment" (mailed 12/01/2003), that concerns to the previously submitted amendment filed on 8/04/2003. | |
| <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 | | |
| SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT | | |
| Firm or Individual name | Eriko Shimizu | RECEIVED |
| Signature | <i>Eriko Shimizu</i> | JAN 02 2004 |
| Date | December 23, 2003 | Technology Center 2600 |

| CERTIFICATE OF TRANSMISSION/MAILING | |
|---|----------------------|
| I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below. | |
| Typed or printed name | Eriko Shimizu |
| Signature | <i>Eriko Shimizu</i> |
| Date | December 23, 2003 |

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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INTRODUCTORY COMMENTS of Correction

This is the correction to the "Notice of Non-Compliant Amendments (Date mailed 12/01/2003)"

1. Items to be corrected

The applicant received the Notice (Date mailed 12/01/2003) that the following checked items cause the amendment document to be non-compliant.

☒ 4. Amendments to the claims:

☒ A.

☒ C.

☒ E. Other:

Claims 1-6 are not mentioned in complete listing of claims.

The abstract should be in narrative form, generally limited to a single paragraph on a separate sheet with 50~150 words.

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2. The correction of "Amendments to the claims"

Claims

Claims are corrected as the attached "Corrected complete listing of claims" (claims sheet 1/2 and 2/2) sheets that correspond to the checked items 4-A, 4-C, and 4-E of the notice.

In this list, Claim 1 and claim 2 are canceled after amended to claim 7 and claim 11 as the new claim. Claims 3-4 and claims 5-6 are also canceled after amended to claims 9-10 and claims 12-13 as the new claims respectively. And claim 8 is newly settled relating to claim 1.

For reference, details of changed parts of claim 7-13 are shown in attached "Details of claim amendments" (claims detail 1/2 and 2/2) sheets.

Abstract

If the amendment of abstract that corresponds to the checked item 4-E is also required to correct to become compliant and is possible to correct at this correction, the abstract is corrected as the attached "Corrected AMENDED ABSTRACT (clean version)" (abstract sheet 1/1) sheet.

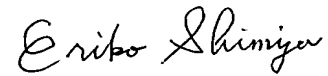
And the details of the correction are shown in attached "Details of

Application Number: 09/331,008
Applicant: Eriko Shimizu
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corrected AMENDED ABSTRACT (marked up version)" (abstract detail 1/1)
sheet, for reference.

December 23, 2003

A handwritten signature in cursive script, reading "Eriko Shimizu".

Eriko Shimizu

Applicant/Inventor

Application Number: 09/331,008

Claims Sheet 1/2

Title: Electronic zoom image input method

Inventor: Eriko Shimizu

Att Unit: 2615



Corrected complete listing of claims

Claims 1-6 (canceled)

Claim 7 (new) ; An electronic zoom image input method that enables zooming without degrading the resolution, by including the fixed focus input image optical system having a function of compressing the input image more largely as it moves to the circumferential part, the image input device providing preferably uniform pixel density, and the zoom image converting and correcting system.

Claim 8 (new) ; An electronic zoom image input method that enables zooming without degrading the resolution, by including the fixed focus input image optical system having a function of compressing the circumferential part of the input image in logarithmic function, and the zoom image converting and correcting system.

Claim 9 (new) ; An electronic zoom image input method claimed in claim 7, that has the optical system where the compression of the circumferential part of the input image is limited to the vertical and horizontal direction.

Claim 10 (new) ; An electronic zoom image input method claimed in claim 7, that has a image input device with a rectangular input image plane, and an optical system with the function of compressing the circumferential part of the input image to all direction, and the neighboring part of the vertical and horizontal axes of the input image.

Claim 11 (new) ; An electronic zoom image input method claimed in Claim 7, or claim 8, or claim 9, or claim 10, where the optical system that compresses the circumferential part of the input image is included as the attachment optical system.

Claim 12 (new) ; An electronic zoom image input method claimed in claim 7, or claim 8, or claim 9, or claim 10, that is capable to change the zooming range, having attachment conversion lenses to change the focal length of the image input optical system.

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Claims Sheet 2/2

Title: Electronic zoom image input method

Inventor: Eriko Shimizu

Art Unit: 2615

Claim 13 (new) ; A 3D image input method whose right and left image input optical systems are organized by fixed focus input image optical systems of the electronic zoom image input method claimed in claim 7, or claim 8, or claim 9, or claim 10.

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Inventor: Eriko Shimizu
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Claims Detail 1/2



Details of claim amendments

Claims 1-6 (canceled)

Claim 7 (new claim amended from claim 1)

B' An electronic zoom image input method that enables zooming without degrading the resolution, by including the fixed focus input image optical system having a function of compressing the input image more largely as it moves to the circumferential part [of the input image], the image input device providing preferably uniform pixel density [pixel], and the zoom image converting and correcting system.

Claim 8 (newly settled claim relating to claim 1)

An electronic zoom image input method that enables zooming without degrading the resolution, by including the fixed focus input image optical system having a function of compressing the circumferential part of the input image in logarithmic function, [the image input device providing preferably uniform density pixel], and the zoom image converting and correcting system.

Claim 9 (new claim amended from claim 3)

An electronic zoom image input method claimed in claim 7, [claim 1, or claim 2] that has the optical system where the compression of the circumferential part of the input image is limited to the vertical and horizontal direction.

Claim 10 (new claim amended from claim 4)

An electronic zoom image input method claimed in claim 7, [claim 1, or claim 2] that has a image input device with a rectangular input image plane, and an optical system with the function of compressing the circumferential part of the input image to all direction, and the neighboring part of the vertical and horizontal axes of the input image.

Claim 11 (new claim amended from claim 2)

An electronic zoom image input method claimed in claim 7, [Claim 1,] or claim 9, or claim 10, where the optical system that compresses the circumferential part of the input image is included as the attachment optical system.

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Title: Electronic zoom image input method
Inventor: Eriko Shimizu
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Claims Detail 2/2

Claim 12 (new claim amended from claim 5)

B¹
An electronic zoom image input method claimed in claim 7, or claim 9, or claim 10, [claim 1, or claim 2, or claim 3, or claim 4,] that is capable to change the zooming range, having attachment conversion lenses [an attachment optical system] to change the focal length of the image input optical system.

Claim 13 (new claim amended from claim 6)

A 3D image input method whose right and left image input optical systems are organized by fixed focus input image optical systems of the electronic zoom image input method claimed in claim 7, or claim 9, or claim 10 [any from claim 1, or claim 3 or claim 4 to claim 5].

Application Number: 09/331,008

Abstract sheet 1/1

Title: Electronic zoom image input method

Inventor: Eriko Shimizu

Art Unit: 2615

DEC 23 2003

Corrected AMENDED ABSTRACT (clean version)

Abstract

An electronic zoom image input method that enables zooming without declining the resolution by receiving an input image transmitted through a fixed focal distance optical system having a function of compressing the circumferential part of the input image by means of a photo detector with a uniform pixel density and subjecting the received image to image correction and conversion to obtain an output image. Three dimensional image input system is realized by preparing each image input system of both left and right view with this electronic zoom image input method.

Application Number: 09/331,008

Abstract detail 1/1

Title: Electronic zoom image input method

Inventor: Eriko Shimizu

Art Unit: 2615



Details of corrected AMENDED ABSTRACT (marked up version)

Abstract

B² An electronic zoom image input method that enables zooming without declining the resolution by receiving an input image transmitted through a fixed focal distance optical system having a function of compressing the circumferential part of the input image by means of a photo detector with a uniform pixel density and subjecting the received image to image correction and conversion to obtain an output image. Three dimensional image input system is realized by preparing each image input system of both left and right view with this electronic zoom image input method.

[It is necessary for zooming to use a conventional optical zoom lens that essentially has a complex and large construction. Instead, by using a simple fixed focal distance lens, a small, simple, all-electronic zoom image input system is realized.]

[Further, three-dimensional zooming, which conventionally requires precise interlock of two zoom lenses, can be realized with a very simple construction without using these complicated zoom lenses.]

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